

# **E1728-95 Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques**

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## **1. Scope**

1.1 This practice covers the collection of settled dusts on hard surfaces using the wipe sampling method. These samples are collected in a manner that will permit subsequent digestion and determination of lead using laboratory analysis techniques such as Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), and Graphite Furnace Atomic Absorption Spectrometry (GFAAS).

1.2 This practice is used to collect samples for subsequent determination of lead on a loading basis (micrograms of lead per area sampled). This practice cannot be used to collect samples for subsequent determination of lead on a concentration basis (micrograms of lead per gram of settled dust collected).

1.3 This practice is not intended for collection of settled dust samples from rough or porous surfaces such as upholstery and carpeting.

1.4 This practice does not address the sampling design criteria (that is, sampling plan that includes the number and location of samples) that are used for risk assessment and other purposes. To provide for valid conclusions, sufficient numbers of samples must be obtained as directed by a sampling plan.

1.5 This practice contains notes that are explanatory and are not part of the mandatory requirements of this practice.

1.6 The values stated in SI units are to be regarded as the standard.

1.7 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Adopted by:**

**Developed by ASTM Subcommittee:** [E06.23](#)

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